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Model #: SU10KRT3UHV

SmartOnline Expandable Rack / Tower UPS System - On-line, double-conversion protection for mission critical applications

Highlights



- 10,000VA (10kVA) / 8,000W on-line 6U rack / tower UPS (3U Power Module + 3U Battery Pack)
- Enhanced serial communications ports, SNMP/Web card slot and EPO jack
- Maintains 200, 208, 220, 230 or 240V output +/-2% during brownouts to 156 and overvoltages to 276V
- Internal fault tolerant auto bypass mode and detachable hardwired PDU with manual bypass switch enables hot-swap UPS replacement without powering off connected loads
- Expandable runtime with optional battery packs
- \$250,000 [Ultimate Lifetime Insurance](#) (USA, Puerto Rico & Canada only)

Description

Tripp Lite 10,000VA (10kVA) SmartOnline Rack/Tower UPS. The SmartOnline SU10KRT3UHV on-line, double conversion UPS protects server, networking or telecommunications equipment from blackouts, voltage fluctuations and surges in a compact tower/rackmount housing. In rack configuration, power module and battery pack occupy only 3 rack spaces each (6U total). Upright tower placement of entire system supported with included tower stands. Large capacity 10,000VA/8000W power module converts raw input AC to DC, then back to perfect sine wave AC output within 2% of user-selectable 200/208/220/230/240V AC output voltages. Frequency regulation locks output power to 50/60Hz (+/-0.2 Hz), removing harmonic distortion, fast electrical impulses and other hard-to-solve power problems not addressed by other UPS types. Perfectly regulated, continuous sine wave output with zero transfer time offers guaranteed compatibility with all equipment types. Hardwire input and output connections support a variety of permanent or PDU style power connections. Detachable hardwired PDU with manual bypass switch enables hot-swap UPS replacement without powering off connected loads. Battery support can be extended through the addition of optional external battery packs, sold separately. Includes slot for internal SNMP/Web card, plus DB9 enhanced serial monitoring port for unattended shutdown, remote control and monitoring of UPS system and power data.

Applications

- Ideal for protection of critical 200/208/220/230/240V equipment in server rooms, internetworking closets and telecommunications systems in rackmount or tower applications. Common applications include corporate or departmental servers, workstations, hubs, routers, bridges, CAD/CAM workstations, concentrators, IP telephony and traditional PBX switching systems.

Package Includes

- SU10KRT3UHV Rack-Tower UPS System with hardwire distribution module and 1 battery pack
- PowerAlert Software and cabling
- Mounting hardware for 4 post rack enclosures/tower stands
- Instruction manual with warranty information

Features

- True on-line, double conversion UPS provides pure, sine wave AC output at all times
- World-wide compatibility with Euro 50Hz and High Voltage North American 60Hz power

- Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer time
- Removes harmonic distortion, electrical impulses, frequency variations and other hard to solve power problems
- 10,000VA/8,000W power capacity with hardwire input/output connections
- Accepts input voltages between 156 and 276, regulating output within 2% of selectable 200/208/220/230/240V AC output
- Standard included 3U battery pack provides 10 minutes runtime at half load (5,000VA) and 4 minutes at full load (10,000VA)
- Expandable runtime with multiple external battery packs, sold separately
- Innovative design makes unit adaptable for rackmount, tower, or stacking applications
- Power module and battery pack require only 3 rack spaces each (6U total rack space usage)
- DB9 serial port for network interface; SNMP compatible
- Slot for optional SNMP/Web card (part# SNMPWEBCARD)
- PowerAlert unattended shutdown software and 6 ft. network cable included
- Fault tolerant auto-bypass maintains continuous utility output to connected equipment, even in cases where the UPS is overloaded or suffers an internal failure that requires service
- Detachable hardwired PDU with manual bypass switch enables hot-swap UPS replacement without powering off connected loads
- Diagnostic LEDs and LCD provide complete overview of operating conditions, UPS status and more
- Mounting hardware included
- Includes RJ11 EPO (emergency power off) port and interconnection cable
- 2 year manufacturers product warranty
- \$250,000 Ultimate Lifetime [connected equipment insurance](#)

Specifications

| SYSTEM OVERVIEW | |
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| Voltage compatibility | 208V AC (200/208/220/230/240V) |
| Frequency compatibility | 50/60Hz |
| OUTPUT | |
| Output VA | 10000 |
| Output watts | 8000 |
| Output nominal voltage | 208V AC (200/220/230/240V) |
| Output voltage regulation | Maintains pure sine wave output at all times, regulated within 2% of selected nominal output voltage, less than 5% total harmonic distortion |
| Output frequency regulation | Regulates line frequency to 50/60Hz +/- 0.05Hz |
| Outlet quantity / type | Hardwire via detachable distribution module |
| INPUT | |
| Maximum input amps | 46.7A (200V), 44.9A (208V), 42.4A (220V), 40.6A (230V), 38.9A (240V) max. |
| Input connection type | Hardwire via detachable distribution module |
| BATTERY | |
| Full load runtime | Included batteries — 4 min (10,000VA) |
| Half load runtime | Included batteries — 10 min (5,000VA) |
| Expandable battery runtime | Supports extended runtime with optional external battery packs |
| DC system voltage | 240V DC |
| Typical battery lifespan | 3-6 years, depending on usage |
| Battery recharge rate | Less than 8 hours to 90% (included battery set only) |
| VOLTAGE REGULATION | |
| Voltage regulation description | On-line, double-conversion process allows this UPS to maintain output voltage within +/-2% of selected nominal voltage at all times |
| Overvoltage correction | Maintains continuous operation without using battery power during overvoltages to 276V AC, reducing output within 2% of selected nominal |

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| Brownout correction | Maintains continuous operation without using battery power during brownout / undervoltage conditions to 156V AC, increasing output within 2% of selected nominal |
| LEDS ALARMS & SWITCHES | |
| Front panel LEDs | 6 LED DISPLAY: line power, bypass, inverter, charger, output AC and battery operation. SELECTABLE LCD DISPLAY: input/output voltage, Hz, battery voltage and charge level and detailed warnings regarding all major UPS functions. |
| Alarms | Multi-function audible alarm offers notification of UPS start, backup operation, low battery, overload, UPS fault, inverter fault, DC bus fault, overtemperature, remote shutdown, shutdown imminent and shutdown complete |
| Switches | Includes main power off/on switch, plus 2 switches to set and execute scrollable LCD functions |
| SURGE / NOISE SUPPRESSION | |
| AC surge suppression | 1320 joules |
| AC suppression response time | Instantaneous |
| EMI / RFI AC noise suppression | Yes |
| PHYSICAL | |
| Shipping weight (lbs) | 327.56 |
| Shipping weight (kg) | 147.4 |
| Unit weight (lbs) | Power Module 54.8 lbs. (59.8 lbs w/SUPDMB710HW); Battery Pack: 158.73 lbs. |
| Unit weight (kg) | Power Module: 24.66kg (26.91kg w/SUPDMB710HW), Battery Pack: 71.43kg |
| Unit Dimensions (HWD/in) | Power Module 5.14 x 17.5 x 25 (30.25 in. depth w/SUPDMB710HW), Battery Pack 5.16 x 17.5 x 2 |
| Unit Dimensions (HWD/cm) | Power Module 13.1 x 44.5 x 63.5 (76.8 cm depth w/SUPDMB710HW); Battery Pack 13.1 x 44.5 x 63.5 |
| Material of construction | Steel |
| Form factors supported | Rack (6U) |
| Cooling method | Built-in cooling fan |
| Battery Access | User replaceable, hot swappable external battery pack |
| ENVIRONMENTAL | |
| Relative Humidity | 0 to 95%, non-condensing |
| Storage Temperature | +5 to +122 degrees Fahrenheit |
| Operating Temperature | +32 to +104 degrees Fahrenheit |
| COMMUNICATIONS | |
| Network monitoring port | Includes 2 built-in DB9 monitoring ports (1-RS232 / 1-contact closure) |
| Software and cabling included | Includes PowerAlert UPS monitoring software for all common network and standalone operating systems. Cabling included. |
| SNMP compatibility | Built-in accessory slot accommodates internal SNMP / Web card and other network accessories |
| WatchDog compatibility | Yes, compatible with Tripp Lite's Watchdog system service to restore operation to locked equipment through soft reboot of application / OS or hard power off/on reboot of connected equipment ideal for unattended kiosk applications |
| LINE / BATTERY TRANSFER | |
| Transfer time from line power to battery mode | Zero transfer time: on-line UPS continuously converts incoming AC to DC, then back to AC. When line power is interrupted, UPS maintains continuous output from battery reserves with absolutely no disruption in output AC power. |
| Low voltage transfer to battery power | Maintains continuous operation during undervoltages as low as 156V AC. Below this point, output is maintained utilizing battery reserves. |

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| High voltage transfer to battery power | Maintains continuous operation during overvoltages to 276V AC. Above this point, output is maintained utilizing battery reserves. |
| SPECIAL FEATURES | |
| EPO port | Includes dedicated EPO (emergency power off) interface and cabling |
| Cold Start | Yes, inverter can be "cold started" to enable temporary AC output during a power failure |
| Appearance | Attractive black steel rackmount housing |
| BATTERY PACK ACCESSORY (optional) | |
| Battery Pack Accessory (optional) | BP240V10RT3U, BP240V557C-1PH, BP240V787C-1PH, BP240V1037C-1PH, BP240V1407C-1PH |
| CERTIFICATIONS | |
| Certifications | Tested to UL1778 (USA), Tested to CSA (Canada), FCC Class A (emissions), NOM (Mexico) |
| WARRANTY | |
| Product Warranty Period | 2 year product warranty |
| Connected Equipment Coverage | \$250,000 connected equipment insurance (USA, Puerto Rico, and Canada only) |
| Optional Coverage | 3 year, 5 year, next day and on-site warranty coverage available for select opportunities - contact Tripp Lite |

Related Items

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| Extended Warranties | | |
| WEXT3-SU10KHV | 3-Year Extended Warranty - For SU10KRT3UHV only | Qty: [optional] |
| External Battery Packs | | |
| BP240V10RT3U | External Battery Pack and Cable. 3U, Expandable, Black 3-Point Connector | Qty: [optional] |
| BP240V557C-1PH | External battery pack for use with select Tripp Lite UPS Systems | Qty: [optional] |
| BP240V787C-1PH | External battery pack for use with select Tripp Lite UPS Systems | Qty: [optional] |
| BP240V1407C-1PH | External battery pack for use with select Tripp Lite UPS Systems | Qty: [optional] |
| BP240V1037C-1PH | External battery pack for use with select Tripp Lite UPS Systems | Qty: [optional] |
| Power Distribution | | |
| SUPDMB710IEC | Detachable PDU option with IEC output connections for compatible SmartOnline UPS Systems | Qty: [optional] |
| Rackmount/Wallmount Kits | | |
| 2POSTRMKITWM | buy 2 | Qty: [optional] |
| Shutdown Cable Kits | | |
| AS400CABLE KIT | Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers | Qty: [optional] |
| SNMP Accessories | | |
| ENVIROSENSE | Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.) | Qty: [optional] |
| SNMPWEBCARD | For remote monitoring and control via SNMP, Web or telnet. | Qty: [optional] |
| Start-Up/Warranty Services | | |
| W02-BW0 | Regular business hours start-up, excludes on-site warranty. | Qty: [optional] |
| W02-BW2-1BD | Regular business hours start-up and two year on-site, next business day break/fix warranty service for locations within 350 miles of a covered service area. | Qty: [optional] |

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| W02-BW2-247 | Regular business hours start-up and two year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of a covered service area. | Qty: [optional] |
| W02-BW3-1BD | Regular business hours start-up and three year on-site, next business day break/fix warranty service for locations within 350 miles of service area. | Qty: [optional] |
| W02-BW3-247 | Regular business hours start-up and three year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area. | Qty: [optional] |
| W02-EW0 | Evening or weekend hours start-up, excludes on-site warranty. | Qty: [optional] |
| W02-EW2-1BD | Evening or weekend hours start-up and two year on-site, next business day break/fix warranty service for locations within 350 miles of service area. | Qty: [optional] |
| W02-EW2-247 | Evening or weekend hours start-up and two year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area. | Qty: [optional] |
| W02-EW3-1BD | Evening or weekend hours start-up and three year on-site, next business day break/fix warranty service for locations within 350 miles of service area. | Qty: [optional] |
| W02-EW3-247 | Evening or weekend hours start-up and three year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area. | Qty: [optional] |
| W02-BW1-1BD | Regular business hours start-up and one year on-site, next business day break/fix warranty service for locations within 350 miles of a covered service area. | Qty: [optional] |
| W02-BW1-247 | Regular business hours start-up and one year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of a covered service area. | Qty: [optional] |
| W02-EW1-1BD | Evening or weekend hours start-up and one year on-site, next business day break/fix warranty service for locations within 350 miles of service area. | Qty: [optional] |
| W02-EW1-247 | Evening or weekend hours start-up and one year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area. | Qty: [optional] |

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.triplite.com/en/products/model.cfm?txtModelID=2472.